Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Koreth J, Matsuoka K-i, Kim HT, et al. Interleukin-2 and regulatory T cells in graft-versus-host disease. N Engl J Med 2011;365:2055-66.

Supplementary Appendix

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Supplementary Table Legend:

Supplementary Tables: Additional information on each study participant.

(A) Patient and disease characteristics, with IL-2 dose-levels. Sentinel sites of cGVHD are in **bold**. (B)

IL-2 response with IL-2. Clinical responses during 8 week IL-2 and patients on extended-duration IL-2

are indicated, including adverse effects (with attribution; IL-2-related in **bold**), clinical response to 8

week and extended-duration IL-2, and description of relevant toxicities and response. Numerical

cGVHD organ specific and global scores (NIH consensus criteria) are indicated for patients with

clinical benefit. For global ratings and categorical scales, a 1 point change on a 3 or 7 point scale, or a

2 point or greater change on a 0 to 10 point scale are considered clinically meaningful.

* sites not scored for response as topical therapy changes permitted during 8 week IL-2 therapy.

ADL: activities of daily living

AE: adverse effect

CAD: coronary artery disease

CNI: calcineurin inhibitor

DM: diabetes mellitus

DVT: deep vein thrombosis

ECP: extracorporeal photopheresis

GI: gastrointestinal

J/F/M: joint/fascia/muscle

LV: left ventricle

MI: myocardial infarction

MMF: mycophenolate mofetil

MRSA: methicillin resistant Staphylococcus aureus

NE: non evaluable

2

NQWMI: non Q-wave mycardial infarction

PR: partial response per NIH consensus criteria

SD: stable disease per NIH consensus criteria

TMA: thrombotic microangiopathy

Supplementary Table-A

ID	Age	Days post- HSCT	Days post- cGVHD	cGVHD sites	Concurrent cGVHD therapy	Discontinued prior therapies	IL-2 dose- level
1	34	1483	1267	Skin, Eyes*, Liver, Mouth*	CNI, Sirolimus, Steroids	Rituximab	Α
2	40	579	424	Skin, Eyes*, J/F/M, Lung, Mouth*	CNI, MMF, Steroids		Α
3	57	420	117	Liver	MMF, Sirolimus, Steroids		Α
4	53	1734	1275	Skin, Mouth*	CNI, Sirolimus, Steroids	MMF, Thalidomide	Α
5	44	1021	784	Skin, Peripheral nerves	MMF, Sirolimus, Steroids		Α
6	61	1425	1186	Skin, Eyes*, Liver, Mouth*	CNI, Sirolimus, Steroids	ECP, MMF, Rituximab	Α
7	41	823	161	Skin	CNI, Steroids	Rituximab, Sirolimus	Α
8	60	2766	2624	Skin, J/M/F	MMF, Sirolimus, Steroids	Alemtuzumab, CNI, Denileukin diftitox, ECP, Rituximab	В
9	63	2734	2233	Skin, Mouth*	MMF, Steroids	ECP, Rituximab, Sirolimus	В
10	48	1575	1127	Skin, J/F/M	Steroids	ECP, Rituximab	В
11	46	776	450	Skin, J/F/M, Eyes* Lung, Mouth*	Steroids		В
12	55	969	821	Skin, J/F/M	CNI, Sirolimus, Steroids	Alemtuzumab, MMF, Rituximab	С
13	27	525	192	Liver, Eyes*, Lung, Mouth*	MMF, Sirolimus, Steroids		С
14	65	728	502	Skin, J/F/M	MMF, Sirolimus, Steroids	CNI	С
15	38	1996	1358	Skin, Eyes*, Liver, Lung, Mouth*	MMF, Steroids	ECP, Rituximab	В
16	38	734	490	Skin , Lung	CNI, MMF, Sirolimus	ECP, Rituximab, Steroids	В
17	64	2539	2400	Skin, J/F/M, Eyes*	CNI, MMF, Steroids	ECP, Imatinib, Rituximab	В
18	54	841	452	Skin, J/F/M, Eyes*	CNI, Sirolimus, Steroids	ECP, MMF, Rituximab	В
19	51	1135	763	Lung	MMF, Steroids	CNI, Sirolimus	В
20	55	1293	1050	Skin, J/F/M, Eyes*, Mouth*	Steroids	Alemtuzumab, ECP, Imatinib	В
21	28	1094	556	Skin, J/F/M, Eyes*, Mouth*	Steroids	CNI, ECP, Imatinib, Rituximab	В
22	54	1559	1403	Skin, J/F/M, Eyes*, Mouth*	CNI, Steroids	MMF, Rituximab	В
23	52	1567	1274	Skin, J/F/M, Eyes*, Mouth*	CNI, MMF, Steroids	Sirolimus	В
24	68	2351	1569	Skin, J/F/M, Eyes*	Imatinib, MMF, Steroids	ECP	В
25	52	1110	609	Skin, J/F/M, Eyes*	CNI, MMF, Steroids	Bortezomib, Rituximab	В
26	34	903	756	Skin J/F/M, Eyes*	Imatinib, MMF, Steroids	Rituximab	В
27	22	747	487	Skin, J/F/M, Eyes*	CNI, Sirolimus, Steroids	ECP, Imatinib, MMF, Rituximab	В
28	37	1420	876	Skin, Mouth*	MMF, Steroids	Rituximab	В
29	26	1699	1443	Skin, J/F/M, Eyes*, Mouth*	CNI, MMF, Steroids	Dasatinib, ECP, Etanercept, Imatinib, Rituximab	В

Supplementary Table-B

	0 Week		Extended II 2 /months.]
l In	8 Week	AEs: CTC grade ≥3; or	Extended IL-2 (months):	
ID	Response	IL-2-associated	NIH organ score	Decreased Toolsky Decreased the
	per NIH criteria	(grade: attribution)	Prednisone taper	Response and Toxicity Description
		Hemophilus influenzae type B bacteremia		1. Coffeeing of coloredormetous skip at 4 wook II. 2
4	NE		NI/A	1. Softening of sclerodermatous skin at 4 week IL-2.
'	INE.	(Gr 3: unrelated);	N/A	2. AEs:
		TMA		- Hemophilus B bacteremia after 4-week IL-2. IL-2 withheld.
	.,	(Gr. 4-DLT: prob. related)		- TMA at 12 days off IL-2.
	Yes: PR		Yes-ongoing (36):	
2	Skin 3→2		Skin-1; J/F/M-0	
_	J/F/M 2→1		Prednisone: 80mg→ off	1. 8-week IL-2: appreciable softening of hidebound skin; improved joint mobility.
	Global: 9→7		1 realisone. Joing 7 on	2. Extended IL-2: continued improvement.
	Yes: PR			1. 8-week IL-2: 50% improvement in liver cGVHD (total bilirubin 12.3→ 6).
3	Liver 3→2		No	2. Could not receive extended IL-2 due to MRSA pneumonia at 8 weeks of IL-2
٦	Global: 5→3	MRSA pneumonia	NO	(similar infection prior to IL-2 too).
	Giodai. 5→3	(Gr. 4: unrelated)		3. Died of liver GVHD (peak bilirubin 84.8) ~3 months off-IL-2.
4	No: SD		No	
	Yes: PR		Vac angaing (20):	
_	Skin 3→2		Yes-ongoing (30):	1. 8-week IL-2: resolution of neuropathic pain; gait improvement; softening of
5	Nerves-CR		skin-1	sclerodermatous skin.
	Global: 7→4		Prednisone: 30 mg→ off	2. Extended IL-2: continued improvement.
6	No: SD		No	·
7	No: SD		No	
8	No: SD		No	
9	NE		N/A	1. IL-2 discontinued at 4 days per patient preference.
	Yes: PR		Yes-complete (14):	
10	Skin 3→2		skin-0; J/F/M-0	1. 8-week IL-2: considerable softening of hidebound skin, improved joint
10	J/F/M 3→2		Prednisone: 20 mg \rightarrow off,	mobility.
	Global 8→5		and off IL-2	2. Extended IL-2: CR at 14 months.
	Yes: PR		Voc. ongs:== (22):	
44	Skin 3→2		Yes-ongoing (22):	1. 8-week IL-2: considerable softening of hidebound skin; improved joint
11	J/F/M 2→1		skin-1; J/F/M-0	mobility.
	Global 7→5		Prednisone: 20 mg→15 mg	2. Extended IL-2: continued improvement.
	No: SD	Injection-site	Von stone - 1/4 FV:	1. 8-week IL-2: patient subjective improvement in joint mobility and chose
12	(minor response)	induration	Yes-stopped (1.5):	extended IL-2.
-	Skin 2→2	(Gr. 3: related)	skin-2; J/F/M-3	2. Extended IL-2: discontinued at 6 weeks given no further improvement
		(33		== ===================================

	J/F/M 3→3 Global 8→7			
13	No: SD		No	
14	Yes: PR Skin 3→2 J/F/M 2→1 Global 6→4	Injection-site induration (Gr. 3: related)	Yes-ongoing (15): skin-1; J/F/M-1 Prednisone: 10 mg→7.5 mg	8-week IL-2: considerable softening of hidebound skin; improved joint mobility; decreased edema; much improved pain. Extended IL-2: continued improvement
15	NE	DOE/SOB (Gr. 4: unrelated)	N/A	IL-2 withheld at 4 weeks for acute onset dyspnea/pneumonitis (multifactorial).
16	NE	Renal (Gr. 2: possibly related)	N/A	1. Baseline renal dysfunction (Cr 1.9 mg/dl), off-study at 3-weeks of IL-2 due to increased renal dysfunction (Cr 2.6 mg/dl) possibly related to IL-2.
17	No: SD (minor response) Skin 2→2 J/F/M 2→2 Global 6→5		Yes-stopped (4): skin-2; J/F/M-2	8-week IL-2: minimal softening of sclerodermatous skin; patient chose extended IL-2. Extended IL-2: discontinued at 4 months given no further improvement
18	NE	TMA (Gr. 4-DLT: probably related)		Eligibility subsequently amended to exclude baseline renal dysfunction, or concomitant sirolimus plus CNI.
19	No: SD (minor response) Lung 1→1 Global 3→2		Yes-ongoing (12); Lung-1 Prednisone: 10 mg →off, and off MMF	1. 8-week IL-2: patient subjective breathing improvement, walking ~3 miles/day; stable PFTs (PR per NIH criteria, but scored as SD). 2. Extended IL-2: stable PFTs. Feels normal, walks up to 5 miles/day.
20	NE	Thrombocytopenia (Gr. 2: possibly related)	N/A	 Softening of sclerodermatous skin at 4-week IL-2, but off-study due to AE concern. IL-2 discontinued at 4 weeks due to thrombocytopenia/schistocytosis without renal or neurological impairment, concerning for possible incipient TMA.
21	Yes: PR Skin 3→2 J/F/M 3→2 Global 9→7	MRSA abscess (Gr. 3: unrelated); Constitutional: fevers, fatigue (Gr. 2: probably related)	No	8-week IL-2: considerable improvement of anasarca; ~90% healing of extensive ulcerated leg lesions; and sclerodermatous skin softening. AE: MRSA buttock furuncle prior to IL-2 initiation (patient omitted to mention). IL-2 withheld starting day 2 for incision/drainage and 3.5 weeks of antibiotic therapy. Could not proceed on extended IL-2 due to inability to return for follow-up and constitutional side-effects.
22	Yes: PR Skin 3→2 J/F/M 2→1	Lower GI Bleed (Gr. 3: unrelated);	No	8-week IL-2: considerable softening of hidebound sclerodermatous skin, improved joint mobility. 2. AEs:

	Global: 7→6	DVT/LV thrombus (Gr. 3: unrelated)		- Lower GI bleed at 7 weeks of IL-2 likely related to diverticular disease. IL-2 withheld Leg DVT at 21 days off IL-2, likely related to GI bleed-associated restricted mobility. Incidental focal left ventricular hypokinesis-associated thrombus during DVT work up, likely due to non-acute MI of indeterminate age Death from acute MI at 70 days off IL-2.
23	Yes: PR Skin 2→1 J/F/M 2→1 Global 6→4	Acute MI (Gr. 4: unrelated)	Yes-ongoing (4) : skin-1; J/F/M-1 Prednisone: 20 mg→15 mg	8-week IL-2: considerable softening of sclerodermatous skin, improved mobility. 2. AEs: - Acute NQWMI requiring coronary stents at 2 weeks of IL-2. Prior CAD, DM, hyperlipidemia, CAD family history. IL-2 withheld for 1 week. LV function preserved. - NQWMI with in-stent thrombosis at 6 weeks of extended IL-2 therapy. Restented. LV function preserved. IL-2 withheld for 4 weeks, then restarted. 3. Extended IL-2: continued improvement- further softening and reduced extent of hidebound skin.
24	Yes: PR Skin 2→1 J/F/M 2→1 Global 5→3		Yes-ongoing (4) : skin-1; J/F/M-1 Prednisone 25 mg→15 mg	 8-week IL-2: considerable softening of sclerodermatous skin, improved joint mobility. Extended IL-2: continued improvement- further softening and reduced extent of hidebound skin.
25	No: SD		No	
26	No: SD	Injection-site induration (Gr. 3: related)	No	
27	Yes: PR Skin 3→2 J/F/M 3→1 Global 9→7		Yes-ongoing (3): skin-2; J/F/M-1 Prednisone: 20 mg→5 mg	 8-week IL-2: considerable softening of sclerodermatous hidebound skin, shrinkage of ulcers, and improved joint mobility. Improved ambulation and ADL capacity. Extended IL-2: continued improvement- further skin softening, re-growth of adnexae (hair), healing of extensive deep ulcers, improving ambulation.
28	No : SD		No	
29	Yes: PR Skin 3→2 J/F/M 3→2 Global 10→8		Yes-ongoing (2) Prednisone: 15 mg→10 mg	8-week IL-2: considerable softening of extensively hidebound skin, decreased erythema and discharge. Improved joint mobility, ambulation and ADL capacity. Extended IL-2: continued improvement- further skin softening, decreasing discharge, improved mobility and ambulation. cGVHD assessment not yet due.

Additional Correlative Analyses:

Response (PR) was associated with baseline Treg:Tcon ratio, with a median of 0.09 (IQR: 0.07-0.12) in responders versus 0.05 (IQR, 0.04-0.1) in non-responders (p=0.03). When stratified by baseline median Treg:Tcon ratio (0.07), patients with ratios above the median had a 75% response rate compared with 20% in those with below median ratios (p=0.03). The sensitivity, specificity, and positive predictive value were 82%, 73% and 75%, respectively, though the numbers are small.

While Treg increased in both responders and non-responders, after 8 weeks of IL-2 therapy the median Treg count was 175 for responders and 75 for non-responders (p=0.11), with a median Treg rise above baseline of 174 for responders and 45 for non-responders (p=0.08). After 4 weeks off IL-2 therapy, the median Treg count was 42 for responders and 15 for non-responders (p=0.08). In this small series, these findings are not statistically significant.

Treg Changes with Alternative Therapy:

To address the possibility that in-vivo Treg expansion might occur non-specifically in patients as cGVHD improves, we examined changes in CD4+CD25+ Treg in a series of patients previously enrolled on a clinical protocol to assess the safety and efficacy of rituximab for treatment of active glucocorticoid-refractory cGVHD (Cutler et al. Blood 2006; 108(2): 756–762). In this clinical trial, changes in CD4+CD25+ Treg were monitored prospectively, along with changes in CD3+ T cells, CD8+ T cells and CD19+ B cells.

Analysis of blood samples in 16 responding patients showed no increase in Treg. Specifically, median Treg counts (cells/µl) at baseline and 8, 16, 26 and 52 weeks on study were as follows: 30 (IQR, 6-83), 16 (IQR, 7-91), 16 (IQR, 7-23), 11 (IQR, 7-45) and 31 (IQR, 14-43) respectively (p=ns). Similar results were observed in non-responders on this study.

Our results indicate that there was no statistically significant change in CD4+CD25+ Treg in clinical responders or non-responders on this trial. These results suggest that Treg expansion does not occur in patients with cGVHD who respond to therapies not specifically designed to affect Treg *in-vivo*.

IL-2 for cGVHD

Provider Survey

Enrollment

Instructions:

Please score a symptom only if you know or suspect it be *related to chronic GVHD*. Subjective symptoms are acceptable. For example, joint tightness can be scored based on subjective findings despite the absence of objective limitations.

Please score symptoms present in the *last week*. Even if they may have resolved with treatment in the past week, if they were present recently and may possibly return, please score them.

Date of Visit:	
Patient:	
MRN:	
cGVHD Dx Date:	
Your Name:	

	Check ONE area of dy as the sentinel i				hematous of any sort	Moveabl sclerosis		Non-moveable subcutaneous sclerosis or fasciitis
1. Head/neck/scalp					%	%		%
2. Anterior torso					%	(%	%
3. Posterior to	orso				%	(%	%
4. L. upper ex	tremity				%	(%	%
5. R. upper ex	tremity				%	(%	%
6. L. lower ex	tremity, (incl. L butt	ock)			%	(%	°/ ₀
7. R. lower ex	tremity, (incl. R but	tock)			%	(%	%
8. Genitalia not examined					%	(%	%
			IL			T		
Skin sclerotic changes	0 □ Normal	Thicked with p of norm	ockets		Thickened over majority of skin	Thickened, unable to move		Hidebound, unable to pinch
	0		1		2	•		3
Skin Score	☐ No Symptoms	<18% BS disease s sclerotic	6A with signs but features		☐ 19-50% Book involvem superficial features "hideboun pinch)	SA OR ent with al sclerotic	s tu in u	50% BSA OR deep clerotic features hidebound" (unable o pinch) OR mpaired mobility, electration or severe pruritus
Fascia	☐ Normal	Tight wi	ith norm	al	☐ Tight		□ 1	ight, unable to move
		<u> </u>						
		Clin	ical Sl	kin F	eatures			
☐ Ulcer	Location:				Largest	dimension:		<u>cm</u>
☐ Maculopapı	ılar rash				☐ Keratos	sis pilaris		
☐ Lichen plan	us-like lesions				☐ Papulos	squamous les	ions o	or icthyosis
☐ Poikiloderm	ıa					volvement		
☐ Pruritus					☐ Nail inv	volvement		
Other, speci	fy:				☐ Other, s	specify:		

Region	Grade	% Area of Grade	Fraction of Grade 3 or 4 Areas with Erythema (indicate up to what fraction is involved)	Region	Grade	% Area of Grade	Fraction of Grade 3 or 4 Areas with Erythema (indicate up to what fraction is involved)
1 11004	0	%		6 Dialet	0	%	
1. Head, Neck	1	%		6. Right Hand	1	%	
and	2	%		Tiana	2	%	
Scalp	3	%	$\square 0 \square \frac{1}{4} \square \frac{1}{2} \square \frac{3}{4} \square 1$	_	3	%	$\square 0$ $\square \frac{1}{4}$ $\square \frac{1}{2}$ $\square \frac{3}{4}$ $\square 1$
	4	%			4	%	$\square 0 \square \frac{1}{4} \square \frac{1}{2} \square \frac{3}{4} \square 1$
	Total =	100 %			Total =	100 %	
2. Chest	0	%		7. Left	0	%	
2. Clest	1	%		Arm	1	%	
	2	%		1 11111	2	%	
	3	%	0 01/4 01/2 03/4 01	_	3	%	$\square 0 \square \frac{1}{4} \square \frac{1}{2} \square \frac{3}{4} \square 1$
	4	%	0 01/4 01/2 03/4 01		4	%	0 1/4 1/2 3/4 1
	Total =	100 %			Total =	100 %	
3. Abdomen	0	%		8. Left	0	%	
and	1	%		Hand	1	%	
Genitals	2	%			2	%	
	3	%			3	%	$\square 0 \square \frac{1}{4} \square \frac{1}{2} \square \frac{3}{4} \square 1$
	4	%	0 0 1/4 0 1/2 0 3/4 0 1		4	%	0 1/4 1/2 3/4 1
_	Total =	100 %			Total =	100 %	
4. Back	0	%		9. Right	0	%	
and	1	%		Leg	1	%	
Buttocks	2	%		and	2	%	
	3	%		Foot	3	%	$\square 0 \square \frac{1}{4} \square \frac{1}{2} \square \frac{3}{4} \square 1$
	4	%	0 0 1/4 0 1/2 0 3/4 0 1		4	%	0 1/4 1/2 13/4 1
	Total =	100 %			Total =	100 %	
5. Right	0			10. Left	0		
Arm	1			Leg	1		
	2			and	2		
	3	- /		Foot	3	%	
	4	%	0 1/4 1/2 3/4 1		4	%	$\square 0 \square 1/4 \square 1/2 \square 3/4 \square 1$
	Total =	100 %	1 (1 (* 11 *		Total =	100 %	

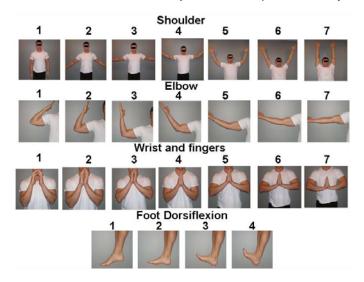
Check ONE area of the body as the sentinel lesion.

0 = normal skin

- 1 = discolored [hypopigmentation, hyperpigmentation, alopecia, erythema, maculopapular rash]
- **2** = lichenoid plaque, or skin thickened (able to move)
- 3 = skin thickened with limited motion but able to pinch [scleroderma or fasciae involvement]
- **4** = hidebound skin, unable to move, unable to pinch

ROM & MOUTH

Please circle this person's current ROM for each joint from 1=poor mobility to 7=full mobility below:



			1	2	3
Mouth Score		□ No symptoms	☐ Mild symptoms with disease signs but not limiting oral intake significantly	☐ Moderate symptoms with signs with partial limitation of oral intake	Severe symptoms with disease signs on examination with major limitation of oral intake
	Erythema	□ None	☐ Mild erythema OR Moderate erythema (<25%)	☐ Moderate (≥25%) OR Severe erythema (<25%)	☐ Severe erythema (≥25%)
Mouth	Lichenoid	☐ None	☐ Hyperkeratotic changes (<25%)	☐ Hyperkeratotic changes (25-50%)	☐ Hyperkeratotic changes (>50%)
	Ulcers	☐ None	☐ None	☐ Ulcers involving (≤20%)	Severe ulcerations (>20%)
	Mucoceles (of lower labia and soft palate only)	☐ None	☐ 1-5 mucoceles	☐ 6-10 scattered mucoceles	Over 10 mucoceles
Mouth Pain		□ No symptoms	☐ Food sensitivity	Pain requiring narcotics	☐ Unable to eat

GASTROINTESTINAL

		0	1	2	3
GI Tract Score		☐ No symptoms	Symptoms such as dysphagia, anorexia, nausea, vomiting, abdominal pain or diarrhea without significant weight loss (<5%)	Symptoms associated with mild to moderate weight loss (5-15%)	Symptoms associated with significant weight loss >15%, requires nutritional supplement for most calorie needs OR esophageal dilation
	Esophagus • Dysphagia OR • Odynophagia		Occasional dysphagia or odynophagia with solid food or pills during the past week	☐ Intermittent dysphagia or odynophagia with solid food or pills (but not for liquids or soft foods) during the past week	☐ Dysphagia or odynophagia for almost all oral intake, on almost every day of the past week
Gastro- intestinal	 Upper GI Early satiety OR Anorexia OR Nausea & vomiting 	□ No symptoms	Mild, occasional symptoms with little reduction in oral intake during the past week	Moderate, intermittent symptoms throughout the day, with some reduction in oral intake, during the past week	☐ More severe or persistent symptoms throughout the day, with marked reduction in oral intake, on almost every day of the past week
	Lower GI • Diarrhea	No loose or liquid stools during the past week	Occasional loose or liquid stools, on some days during the past week	☐ Intermittent loose or liquid stools through- out the day, on almost every day of the past week without requiring intervention to prevent or correct volume depletion	□ Voluminous diarrhea on almost every day of the past week requiring intervention to prevent or correct volume depletion

OTHER ORGANS

	0	1	2	3
Eye Score	☐ No symptoms	☐ Mild dry eye symptoms not affecting ADL (requiring eye drops <3x per day) OR asymptomatic signs of kerato- conjunctivitis sicca	Moderate dry eye symptoms partially affecting ADL (requiring eye drops >3x per day or punctual plugs) WITHOUT vision impairment	Severe dry eye symptoms significantly affecting ADL (special eyewear to relieve pain) OR unable to work because of ocular symptoms OR loss of vision caused by keratoconjunctivitis sicca
Joints and Fascia Score	□ No symptoms	☐ Mild tightness of arms or legs, normal or mild decreased range of motion (ROM) AND not affecting ADL	☐ Tightness of arms or legs OR joint contractures, erythema thought due to fasciitis, moderate decrease ROM AND mild to moderate limitation of ADL	☐ Contracture WITH significant decrease of ROM AND significant limitation of ADL (unable to tie shoes, button shirts, dress self etc.)
Genital Tract Score No GYN Exam NB: score still required	□ No symptoms	Symptomatic with mild distinct signs on exam AND no effect on coitus and minimal discomfort with GYN exam	Symptomatic with distinct signs on exam AND with mild dyspareunia or discomfort with GYN exam	Symptomatic WITH advanced signs (stricture, labia agglutination or severe ulceration) AND severe pain with coitus or inability to insert vaginal spectrum
Lung Score	☐ No symptoms	☐ Mild symptoms (shortness of breath after climbing one flight of steps)	☐ Moderate symptoms (shortness of breath after walking on flat ground)	Severe symptoms (shortness of breath at rest; requiring O ₂)
Other Organ Score Specify:	No effect on ADL	☐ Mild effect on ADL	☐ Moderate effect on ADL	☐ Severe effect on ADL
Other Organ Score Specify:	☐ No effect on ADL	☐ Mild effect on ADL	☐ Moderate effect on ADL	☐ Severe effect on ADL

Please rate	the sev	verity of t	his perso	n's c	hronic G	VH	D				
on this scale → □ None (1)					Mild (2)		☐ Mode	erate (3)		Severe (4	+)
and on this	cGVHD symptoms are not at all severe									sym are	GVHD nptoms re most severe ossible
	+	0 1	2	3	4	5	6	7	8	9	10
and on this scale (circle one) Reasons for changing therapeutic regimen (check all that apply) Not applicable, no changes made Adjust levels of medications Enroll on clinical trial Worsening of symptoms No improvement in symptoms Toxicity New symptoms Improvement in symptoms Disease relapse Sentinel Organ Response in which organ system will guide y treatment decisions (If more than one, please rank Skin Joints Lung Urogenital Lung Urogenital Liver Mouth Esophagus Lower GI Other specify: Does this person currently have: Late acute GVHD (1) Overlap acute and chronic GVHD (2) Classic chronic GVHD (3) No GVHD (0)						nk)					
								-			
Infection None Mild, topical or no therapy required		For			infect requi: anti-i mold- antifu hospi	ring IV nfective, -active oral ingal or talization	i	Life-threa infection			
			nding lab oort (1)	UU	Jnidentified (organi	ism (2)	☐ Identified	d organ	iism, spe	cify (3):

Peripheral Edema?	☐ None (0)	one (0)		9) 🗖 1+		- 2+		3+	4 -
Other indicators, clinical manifestations or severe complications related to chronic GVHD									
	N	Never		Past, not now		Mild I		lerate	Severe
1. Pleural Effusion(s)							!		
2. Bronchiolitis obliteran	s								
3. Bronchiolitis obliterant organizing pneumonia									
4. Nephrotic syndrome									
5. Malabsorption							ļ		
6. Esophageal stricture or web							l		
7. Ascites (serositis)									
8. Myasthenia Gravis									
9. Peripheral Neuropathy	У								
10. Polymyositis									
11. Pericardial Effusion									
12. Cardiomyopathy									
13. Cardiac conduction de	fects								
14. Coronary artery involvement									
15. Other, please specify:							Į		
16. Other, please specify:							l		
17. Other, please specify:							I		
For office use only:									
Study ID Initials (First, Last)			Date completed: Date received:						
Person completing form:				Their degree:					
Timepoint:				Date entered:					